

Section II
Soil and Site Information

Building Site Development
Lyman County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AaA: Agar-----	85	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
AaB: Agar-----	90	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
AaC: Agar-----	85	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bg: Bigbend-----	85	Somewhat limited Frost action Flooding	0.50 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
BuA: Bullcreek-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey Sodium content	1.00 1.00
BxA: Bullcreek-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey Sodium content	1.00 1.00
Slickspots, Dry----	30	Not rated		Not rated		Not rated	
CeA: Carter-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ChB: Chantier-----	90	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Depth to bedrock	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
FaA: Fairlo-----	85	Very limited Low strength	1.00	Somewhat limited Too clayey	0.12	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
FaB: Fairlo-----	90	Very limited Low strength	1.00	Somewhat limited Too clayey	0.12	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Fp: Norway-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Frost action	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80	Droughty	0.69
Hm: Hilmoe-----	90	Very limited Shrink-swell	1.00	Somewhat limited Too clayey	0.28	Very limited Too clayey	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Flooding	0.40				
Ho: Hoven-----	90	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Sodium content	1.00
		Low strength	1.00	Too clayey	0.28	Ponding	1.00
		Ponding	1.00	Cutbanks cave	0.10		
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HrA: Capa-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Depth to saturated zone Cutbanks cave	1.00 0.47 0.10	Very limited Sodium content	1.00
In: Inavale-----	90	Very limited Flooding	1.00	Very limited Cutbanks cave Flooding	1.00 0.80	Very limited Flooding Droughty	1.00 0.22
Ko: Kolls-----	90	Very limited Shrink-swell Low strength Depth to saturated zone Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Too clayey Cutbanks cave Ponding	1.00 1.00 1.00 1.00	Very limited Too clayey Depth to saturated zone Ponding	1.00 1.00 1.00
Kp: Kolls-----	90	Very limited Shrink-swell Depth to saturated zone Low strength Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Too clayey Cutbanks cave Ponding	1.00 1.00 1.00 1.00	Very limited Too clayey Depth to saturated zone Ponding	1.00 1.00 1.00
LaB: Lakoma-----	95	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to soft bedrock Cutbanks cave	0.72 0.42 0.10	Very limited Too clayey Droughty Depth to bedrock	1.00 0.85 0.42
LaC: Lakoma-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to soft bedrock Cutbanks cave	0.72 0.42 0.10	Very limited Too clayey Droughty Depth to bedrock	1.00 0.85 0.42

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LbD: Lakoma-----	50	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.63	Somewhat limited Too clayey Slope Depth to soft bedrock Cutbanks cave	0.72 0.63 0.42 0.10	Very limited Too clayey Droughty Slope Depth to bedrock	1.00 0.85 0.63 0.42
Okaton-----	35	Somewhat limited Depth to soft bedrock Slope	1.00 0.37	Very limited Depth to soft bedrock Too clayey Slope Cutbanks cave	1.00 0.72 0.37 0.10	Very limited Too clayey Depth to bedrock Droughty Slope	1.00 1.00 1.00 0.37
LcE: Lakoma-----	45	Very limited Shrink-swell Low strength Slope	1.00 1.00 1.00	Very limited Slope Too clayey Depth to soft bedrock Cutbanks cave	1.00 0.72 0.42 0.10	Very limited Too clayey Slope Droughty Depth to bedrock	1.00 1.00 0.85 0.42
Okaton-----	35	Very limited Depth to soft bedrock Slope Content of large stones	1.00 1.00 0.15	Very limited Depth to soft bedrock Slope Too clayey Content of large stones Cutbanks cave	1.00 1.00 0.72 0.15 0.10	Very limited Too clayey Depth to bedrock Droughty Content of large stones Slope	1.00 1.00 1.00 1.00 1.00
LoA: Lowry-----	90	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
LoB: Lowry-----	90	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
LoC: Lowry-----	95	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LrD: Lowry-----	50	Somewhat limited Low strength Slope Frost action	0.78 0.63 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
Sully-----	40	Very limited Slope Low strength Frost action	1.00 0.78 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
McA: Mcclure-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
McB: Mcclure-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
McC: Mcclure-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
MLA: Millboro-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
MLB: Millboro-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
MLC: Millboro-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MmA: Millboro-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Very limited Too clayey	1.00
MmB: Millboro-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Very limited Too clayey	1.00
MnB: Millboro-----	50	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Very limited Too clayey	1.00
Boro-----	40	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.88 0.10	Very limited Too clayey Droughty	1.00 0.01
MnC: Millboro-----	45	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Very limited Too clayey	1.00
Boro-----	40	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.88 0.10	Very limited Too clayey Droughty	1.00 0.01
Mp: Mobridge-----	90	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Mr: Munjor-----	85	Somewhat limited Flooding	0.40	Very limited Cutbanks cave	1.00	Not limited	
Mv: Munjor-----	65	Somewhat limited Flooding	0.40	Very limited Cutbanks cave	1.00	Not limited	
Inavale-----	25	Somewhat limited Flooding	0.40	Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.22

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OhE: Okaton-----	55	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Depth to soft bedrock Slope Too clayey Cutbanks cave	1.00 1.00 0.72 0.10	Very limited Too clayey Depth to bedrock Slope Droughty	1.00 1.00 1.00 1.00
Lakoma-----	30	Very limited Shrink-swell Slope Low strength	1.00 1.00 1.00	Very limited Slope Too clayey Depth to soft bedrock Cutbanks cave	1.00 0.72 0.42 0.10	Very limited Too clayey Slope Droughty Depth to bedrock	1.00 1.00 0.85 0.42
Ok: Onita-----	85	Very limited Frost action Low strength Shrink-swell	1.00 1.00 1.00	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Not limited	
OlA: Opal-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.23
OlB: Opal-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.23
OlC: Opal-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.23

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OmC: Opal-----	50	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.23
Chantier-----	35	Very limited Shrink-swell Depth to soft bedrock Low strength	1.00 1.00 1.00	Very limited Depth to soft bedrock Too clayey Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Too clayey Depth to bedrock Droughty	1.00 1.00 1.00
OnD: Opal-----	60	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.37	Very limited Cutbanks cave Too clayey Depth to soft bedrock Slope	1.00 0.88 0.42 0.37	Very limited Too clayey Depth to bedrock Slope Droughty	1.00 0.42 0.37 0.23
Sansarc-----	25	Very limited Shrink-swell Depth to soft bedrock Low strength Slope	1.00 1.00 1.00 0.37	Very limited Depth to soft bedrock Too clayey Slope Cutbanks cave	1.00 1.00 1.00 0.37 0.10	Very limited Too clayey Depth to bedrock Droughty Slope	1.00 1.00 1.00 0.37
Or: Orthents, Loamy-----	80	Not rated		Not rated		Not rated	
OrB: Orton-----	90	Not limited		Very limited Cutbanks cave	1.00	Not limited	
OtA: Orton Variant-----	90	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
OvB: Orton Variant-----	55	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Valentine-----	30	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.34
Pg: Orthents, Gravelly--	99	Not rated		Not rated		Not rated	
PoA: Promise-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
PoB: Promise-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
PoC: Promise-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
PrA: Promise-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
Capa-----	30	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Depth to saturated zone Cutbanks cave	1.00 0.47 0.10	Very limited Sodium content	1.00
ReB: Ree-----	90	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
ReC: Ree-----	90	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
RLA: Reliance-----	90	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
RLB: Reliance-----	90	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
RLC: Reliance-----	90	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
RsE: Rock Outcrop, Soft--	65	Not rated		Not rated		Not rated	
Sansarc-----	20	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
SaE: Sansarc-----	85	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
SbE: Sansarc-----	50	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Opal-----	40	Very limited Shrink-swell Low strength Slope	1.00 1.00 1.00	Very limited Cutbanks cave Slope Too clayey Depth to soft bedrock	1.00 1.00 0.88 0.42	Very limited Too clayey Slope Depth to bedrock Droughty	1.00 1.00 0.42 0.23
ScE: Sansarc-----	50	Very limited Shrink-swell Slope Depth to soft bedrock Low strength	1.00 1.00 1.00 1.00	Very limited Depth to soft bedrock Slope Too clayey Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Too clayey Depth to bedrock Slope Droughty	1.00 1.00 1.00 1.00
Rock Outcrop, Soft--	35	Not rated		Not rated		Not rated	
SeE: Sansarc-----	50	Very limited Shrink-swell Slope Depth to soft bedrock Low strength	1.00 1.00 1.00 1.00	Very limited Depth to soft bedrock Slope Too clayey Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Too clayey Depth to bedrock Slope Droughty	1.00 1.00 1.00 1.00
Schamber-----	30	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty	1.00 0.81
ShE: Schamber-----	85	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty	1.00 0.81
SlE: Sully-----	90	Very limited Slope Low strength Frost action	1.00 0.78 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

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VaD: Valentine-----	85	Very limited Slope	1.00	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope Droughty	1.00 0.34
W: Water-----	100	Not rated		Not rated		Not rated	
Wd: Wendte-----	85	Very limited Shrink-swell Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Too clayey Depth to saturated zone Cutbanks cave	0.80 0.50 0.47 0.10	Very limited Flooding Too clayey	1.00 1.00
Wt: Witten-----	85	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Somewhat limited Too clayey Depth to saturated zone Cutbanks cave	0.88 0.47 0.10	Very limited Too clayey	1.00